

5.3.3 TUDET

RFA TUDET processing provides the user with the capabilities to administer the TUDET reference file. The RFA main menu, RFA - Select File window, is shown in Figure 5.3.3-1. To access TUDET files, highlight the {**Tudet File**} option in the list box on the left. Then click the applicable button on the right to select the particular TUDET function desired.

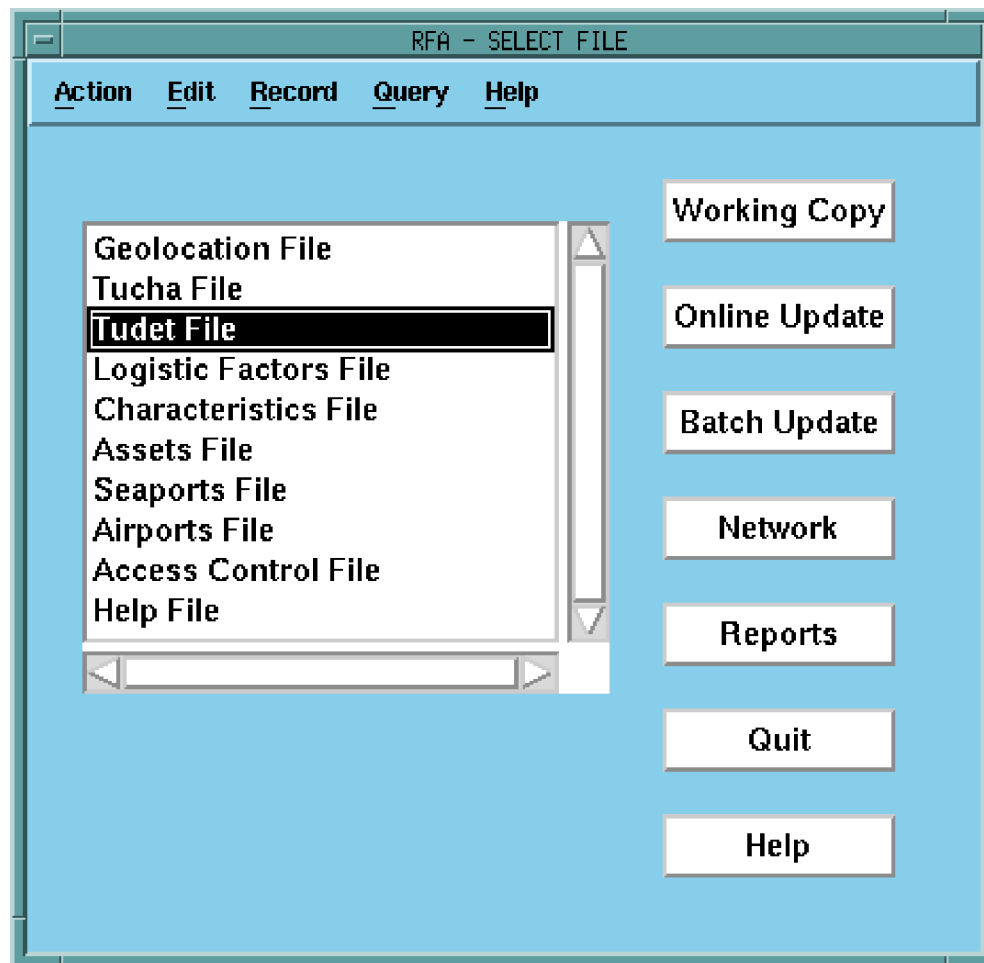


Figure 5.3.3-1. Select Tudet File from RFA Main Menu

Push Buttons. This window provides the following buttons:

- | | |
|------------------------|---|
| {Working Copy} | Copies the TUDET reference file from the JOPES Core database to the RFA database (See Paragraph 5.3.3.1). |
| {Online Update} | This function is not provided at this time. |
| {Batch Update} | Provides the user with the capability to process JRS transaction files (See Paragraph 5.3.3.2). |

{Network}	Consolidates all updates that have occurred since the last Working Copy, and generates an ORACLE script to use in updating the TUDET file at all JOPES Core database sites. An export file of JRS transactions to update the WWMCCS TS3 is also generated (See Paragraph 5.3.3.3).
{Reports}	Brings up a menu of available TUDET and general reports (See Paragraph 5.3.3.4).
{Quit}	Terminates TUDET processing, and invokes session control processing prior to ending RFA.
{Help}	Provides Online Help for the RFA main menu.

5.3.3.1 TUDET Working Copy

The TUDET Working Copy function copies the live TUDET file from the user's local node JOPES Core database into the local TUDET file in the RFA database. This function is called when highlighting **{Tudet File}** option and clicking **{Working Copy}** from the RFA main menu (see Figure 5.3.3-1). When this function is called, an alert pop-up window appears, as shown in Figure 5.3.3.1-1, to warn the user that the Working Copy may take a considerable amount of time. The length of time required is a function of the hardware configuration and GCCS workload.

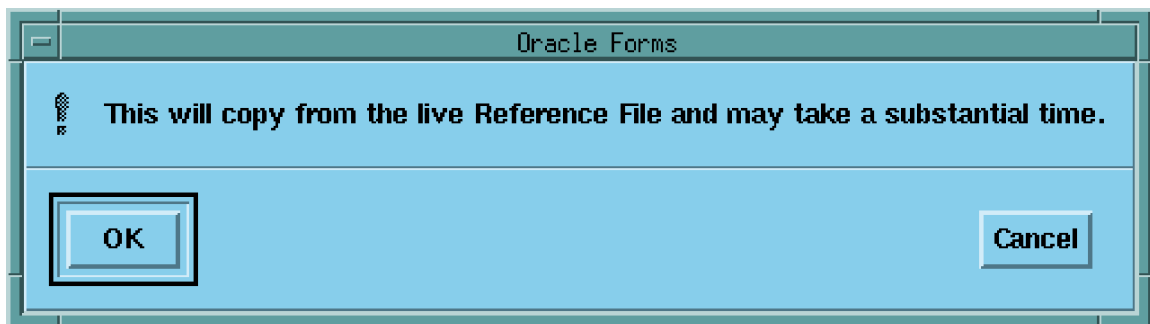


Figure 5.3.3.1-1. Alert Pop-Up Window - Considerable Wait Warning

Push Buttons. This window provides the following buttons:

{OK}	Continues the Working Copy function.
{Cancel}	Cancels the Working Copy, and returns the user to the RFA main menu.

If there have been updates to the TUDET file since the last Working Copy, which have not been processed by the Network function, an alert warning pop-up window, as shown in Figure 5.3.3.1-2, displays indicating that continuation of this process will cause changes to be lost.

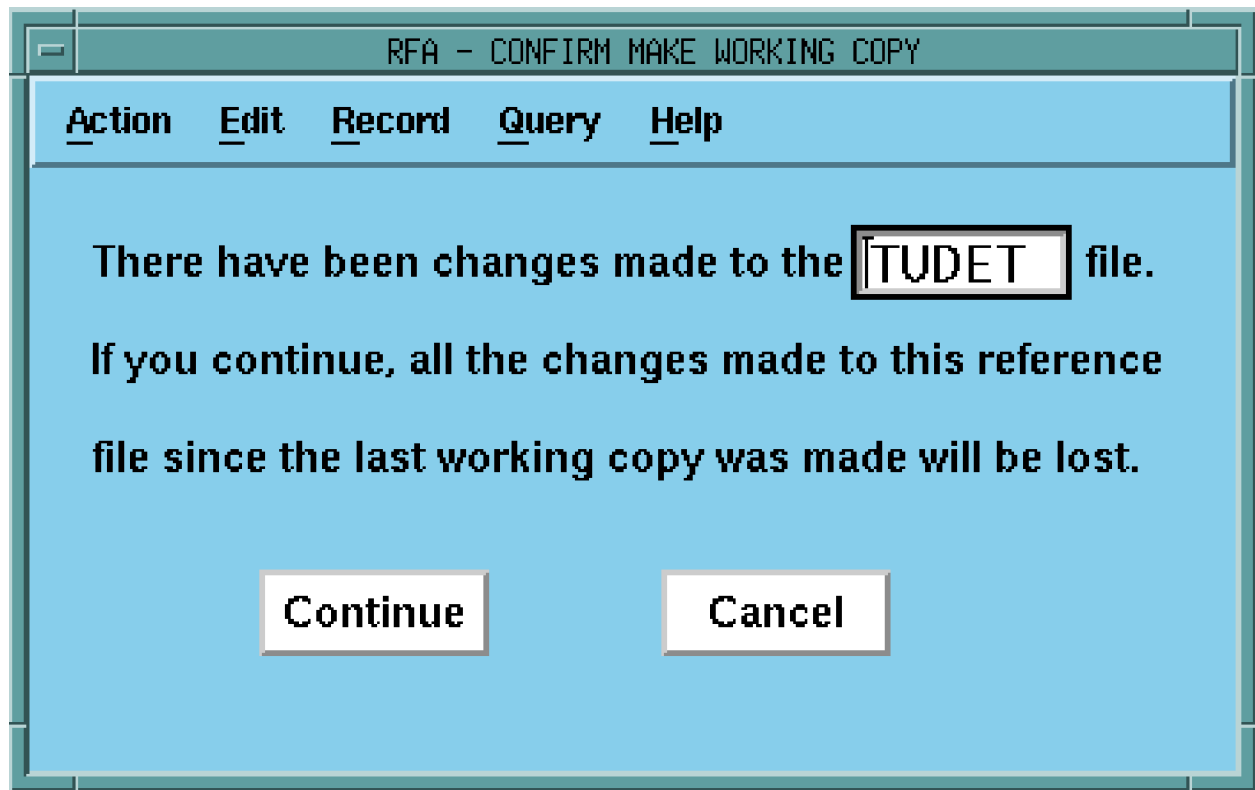


Figure 5.3.3.1-2. Alert Pop-Up Window - Changes Will Be Lost Warning

Push Buttons. This window provides the following buttons:

{Continue} Continues the Working Copy function.

{Cancel} Cancels the Working Copy, and returns the user to the RFA main menu.

At this point, a wait pop-up window appears, as shown in Figure 5.3.3.1-3 advising the user to wait until the Working Copy process is completed. On completion of Working Copy, the user is returned to the RFA main menu.



Figure 5.3.3.1-3. Wait Pop-Up Window - Please Wait

5.3.3.2 TUDET Batch Process Overview

TUDET batch software provides the capability to process TUDET input transactions in a batch mode. TUDET data, which must conform to JRS standards, are required in the development and evaluation of joint operation plans and consist of information concerning the physical characteristics of certain items of unit equipment associated with type units. TUDET input transactions are submitted by individual Services for all reportable items of equipment associated with the Service type units. The Air Force reports data only for nonair-transportable items of equipment. The TUDET batch software loads transactions into the RFA ORACLE database, performs both JRS format edits and JRS data edits, and, subsequently loads data into TUDET tables in the RFA ORACLE database.

The following paragraphs describe specific software capabilities for each TUDET batch window:

- RFA - Select File (see Paragraph 5.3.3.2.1),
- RFA - TUDET Transaction Options (see Paragraph 5.3.3.2.2),
- RFA - TUDET Input Transaction Load Error (see Paragraph 5.3.3.2.2.1),
- RFA - JRS Load Results (see Paragraph 5.3.3.2.3),
- RFA - JRS Transaction Listing Options (see Paragraph 5.3.3.2.4),
- RFA - Printer Selection (see Paragraph 5.3.3.2.4.1),
- RFA - JRS Edit Results (see Paragraph 5.3.3.2.5),
- RFA - Printer Selection (see Paragraph 5.3.3.2.5.1),
- RFA - TUDET Data Edits (see Paragraph 5.3.3.2.6),
- RFA - TUDET Data Edit Results (see Paragraph 5.3.3.2.7), and
- RFA - Printer Selection (see Paragraph 5.3.3.2.7.1).

5.3.3.2.1 RFA - Select File

The user initiates TUDET batch processing from the RFA - Select File window, shown in Figure 5.3.3.2.1-1. Highlighting the {**Tudet File**} option and clicking {**Batch Update**} on the right side of the window causes the RFA - TUDET Transaction Options window to appear (see Paragraph 5.3.3.2.2).

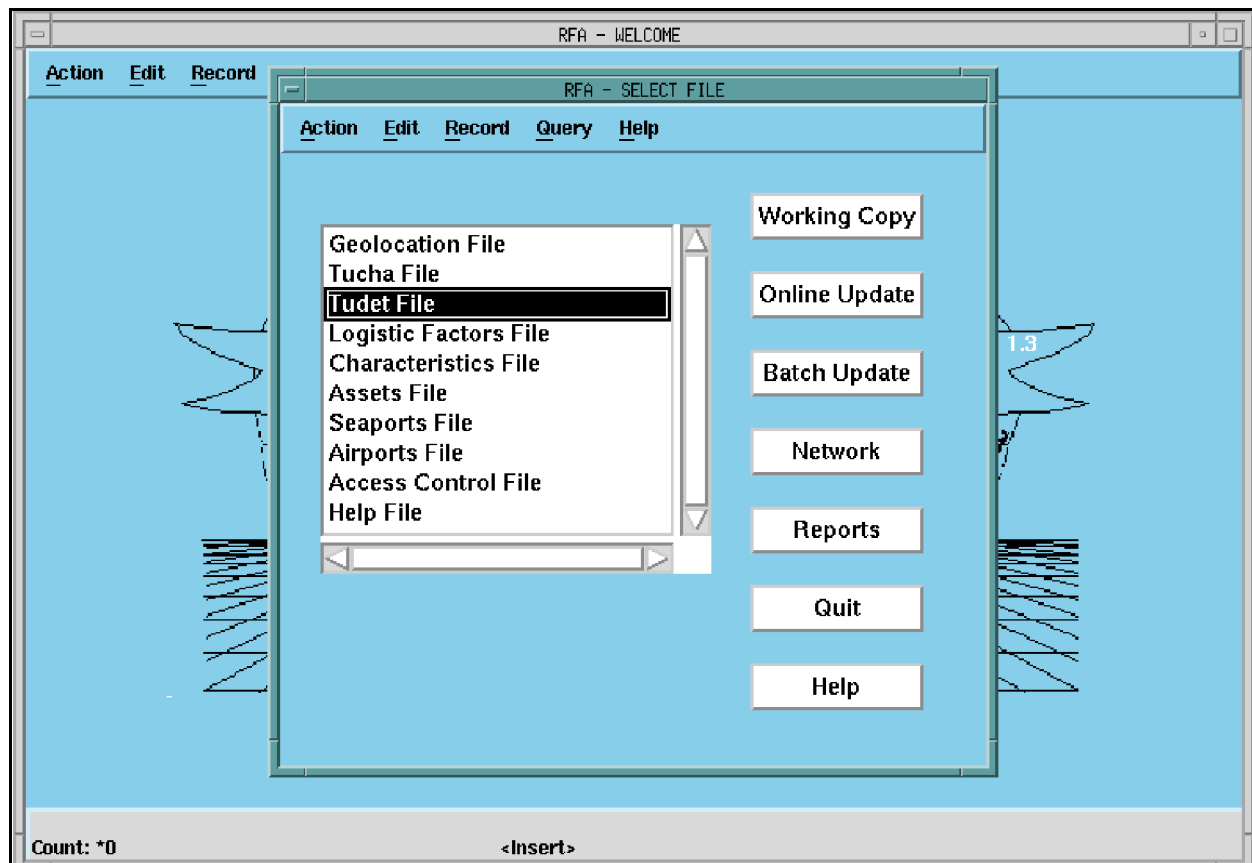


Figure 5.3.3.2.1-1. RFA - Select File Window

5.3.3.2.2 RFA - TUDET Transaction Options

The user must enter the TUDET transaction file name in the transaction file input box of the RFA - TUDET Transaction Options window shown in Figure 5.3.3.2.2-1. This flat, ASCII-encoded file is submitted by the individual Services, and consists of information for all items of equipment associated with the given Service type unit. The file must be stored in the *rfa_net* directory under the user's home directory.

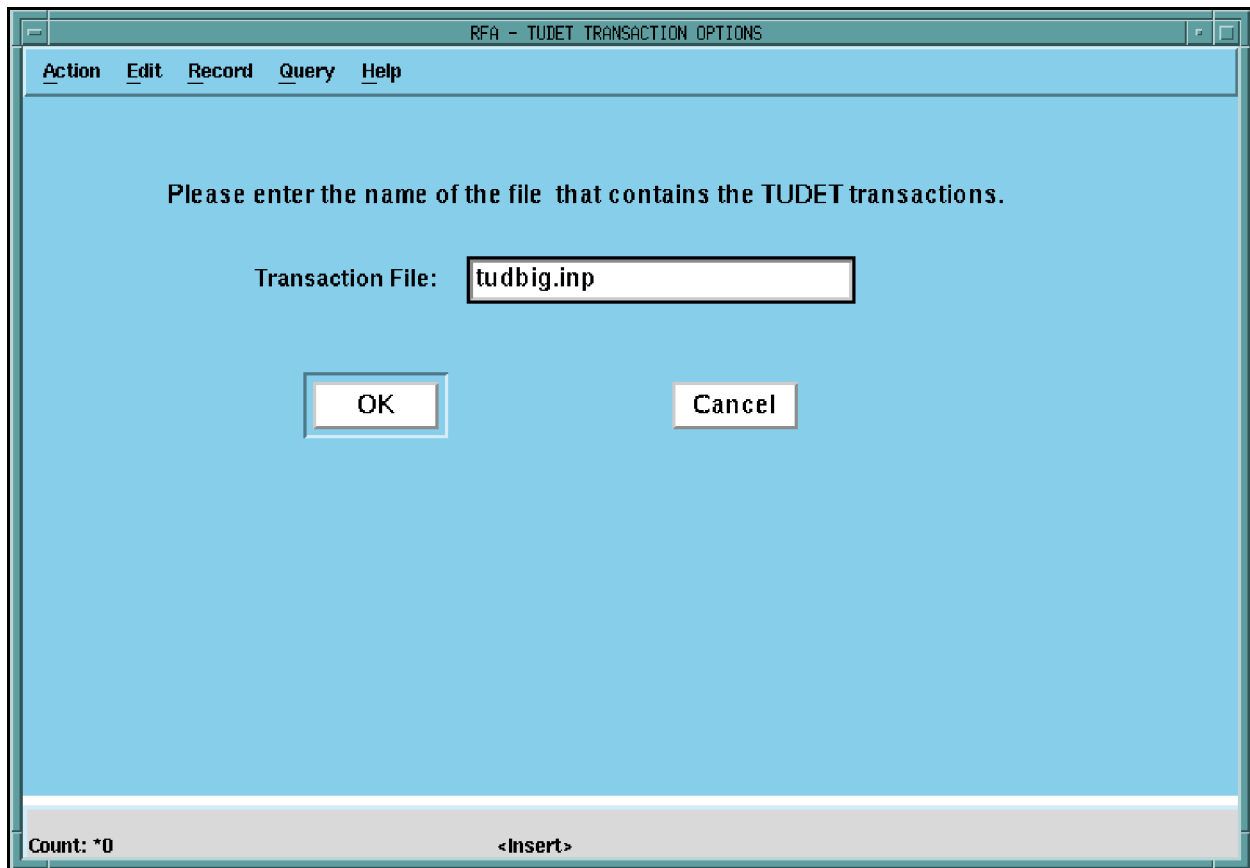


Figure 5.3.3.2.2-1. RFA - TUDET Transaction Options Window

Push Buttons. This window provides access to the following buttons:

- | | |
|-----------------|--|
| {OK} | Loads the TUDET input transactions into the RFA ORACLE database. The input record format must conform to the standards set by the JRS. If the load is successful, the RFA - JRS Load Results window appears (see Paragraph 5.3.3.2.3). Otherwise, the RFA - TUDET Input Transaction Load Error window appears (see Paragraph 5.3.3.2.2.1). |
| {Cancel} | Exits the TUDET batch processing, and returns the user to the RFA - Select File window (see Paragraph 5.3.3.2.1). |

5.3.3.2.2.1 RFA - TUDET Input Transaction Load Error

The RFA - TUDET Input Transaction Load Error window, RFA-TUDET Batch Processing, shown in Figure 5.3.3.2.2.1-1, indicates an error occurred while loading the TUDET input transaction file onto the RFA ORACLE database. The user should verify the file is in the appropriate directory and contains at least a single record.

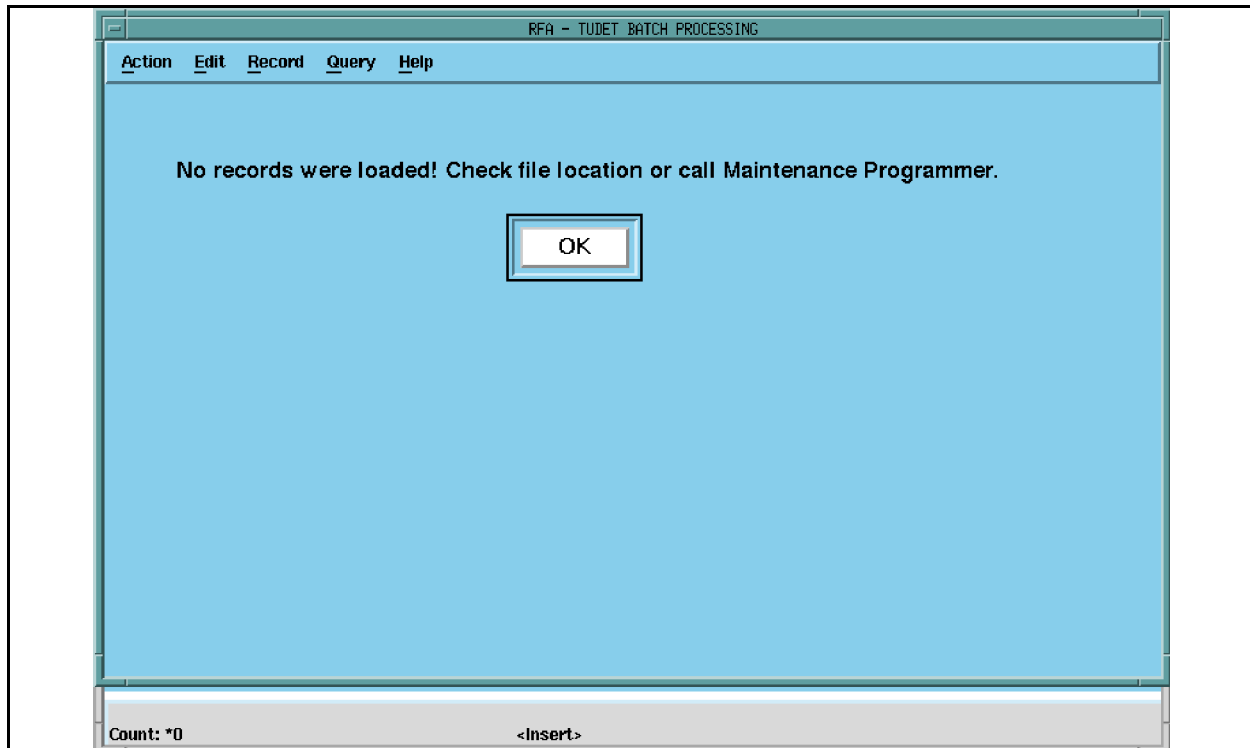


Figure 5.3.3.2.2.1-1. RFA - TUDET Input Transaction Load Error Window

Push Buttons. This window provides access to the following button:

{OK}	Returns the user to the RFA - TUDET Transaction Options window (see Paragraph 5.3.3.2.2).
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5.3.3.2.3 RFA - JRS Load Results

The RFA - JRS Load Results window, shown in Figure 5.3.3.2.3-1, displays the number of input transactions loaded into the RFA ORACLE database. These records are subsequently ready for additional JRS validation. A message display prompts the user if further batch processing is desired.

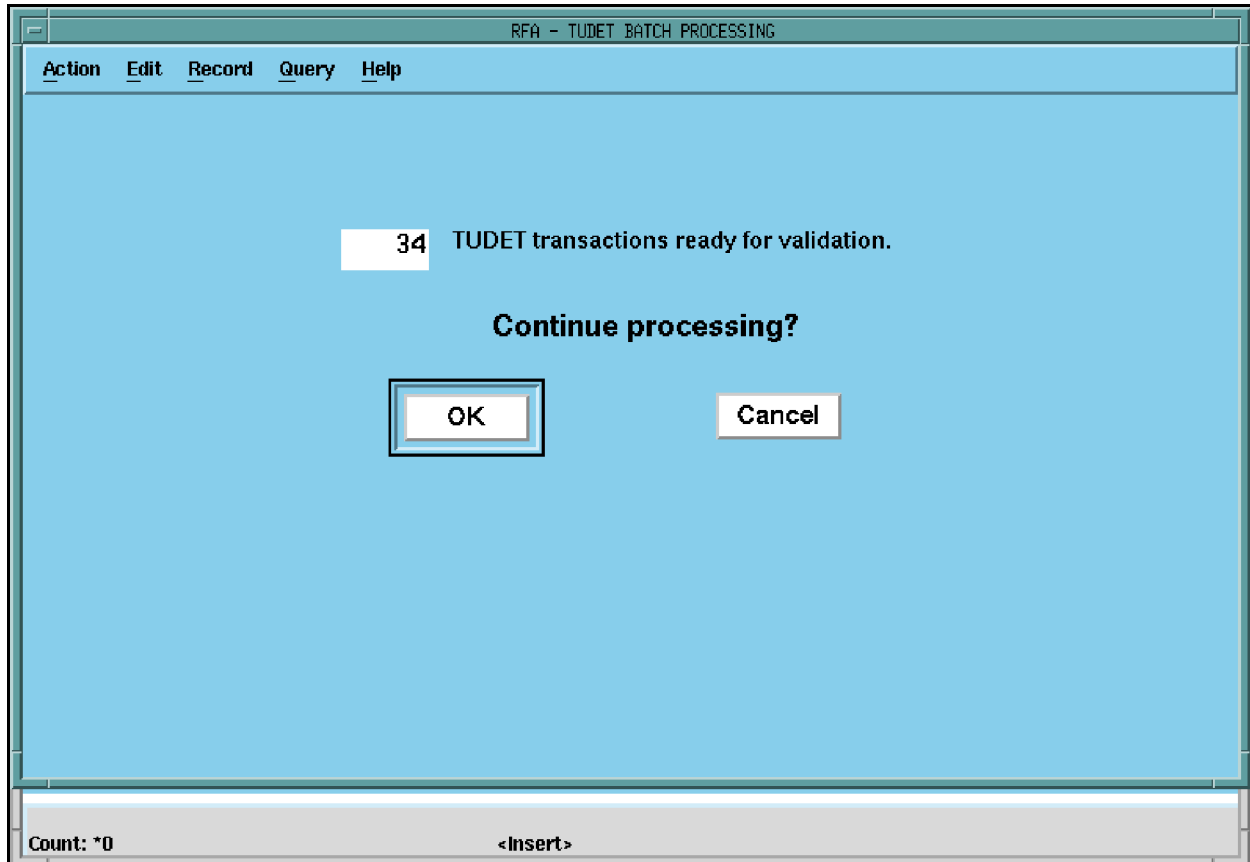


Figure 5.3.3.2.3-1. RFA - JRS Load Results

Push Buttons. This window provides access to the following buttons:

- | | |
|-----------------|---|
| {OK} | Continues TUDET batch processing. The RFA - JRS Transaction Listing Options window appears (see Paragraph 5.3.3.2.4). |
| {Cancel} | Terminates batch processing without updating the TUDET tables in the RFA ORACLE database, and returns the user to the RFA - TUDET Transaction Options window (see Paragraph 5.3.3.2.2). |

5.3.3.2.4 RFA - JRS Transaction Listing Options

The RFA - JRS Transaction Listing Options window, shown in Figure 5.3.3.2.4-1, gives the user the opportunity to either view or print the TUDET Input Transaction Listing Report or continue batch processing without a report.

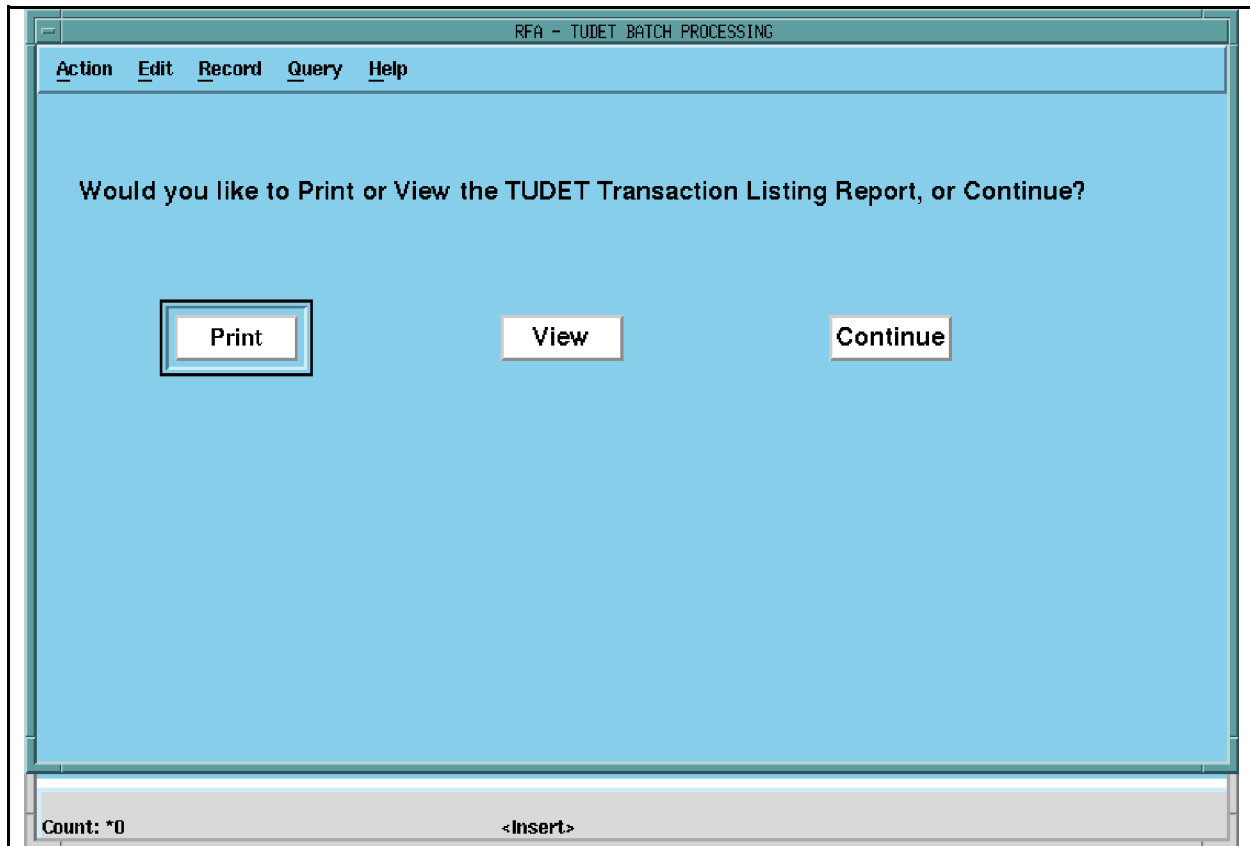


Figure 5.3.3.2.4-1. RFA - JRS Transaction Listing Options Window

Push Buttons. This window provides access to the following buttons:

- | | |
|-------------------|---|
| {Print} | Gives the user the opportunity to print the TUDET Input Transaction Report in the background, and continue with batch processing immediately. Clicking {Print} , causes the RFA - Printer Selection window to appear (see Paragraph 5.3.3.2.4.1). |
| {View} | Displays a wait window temporarily until the TUDET Input Transaction Report is displayed. Once the report appears, the user may traverse the various pages in the report, but must ultimately close the report to continue batch processing. The RFA - JRS Edit Results window appears on closing the report (see Paragraph 5.3.3.2.5). |
| {Continue} | Continues the TUDET batch processing without viewing the TUDET Input Transaction Listing Report as the RFA - JRS Edit Results window appears (see |

Paragraph 5.3.3.2.5).

5.3.3.2.4.1 RFA - Printer Selection

The user can select a printer to direct the TUDET Input Transaction Listing Report; however, the user must know the name of a valid printer, which is configured to the system. The printer name must be entered in the printer selection box in the RFA - Printer Selection window shown in Figure 5.3.3.2.4.1-1.

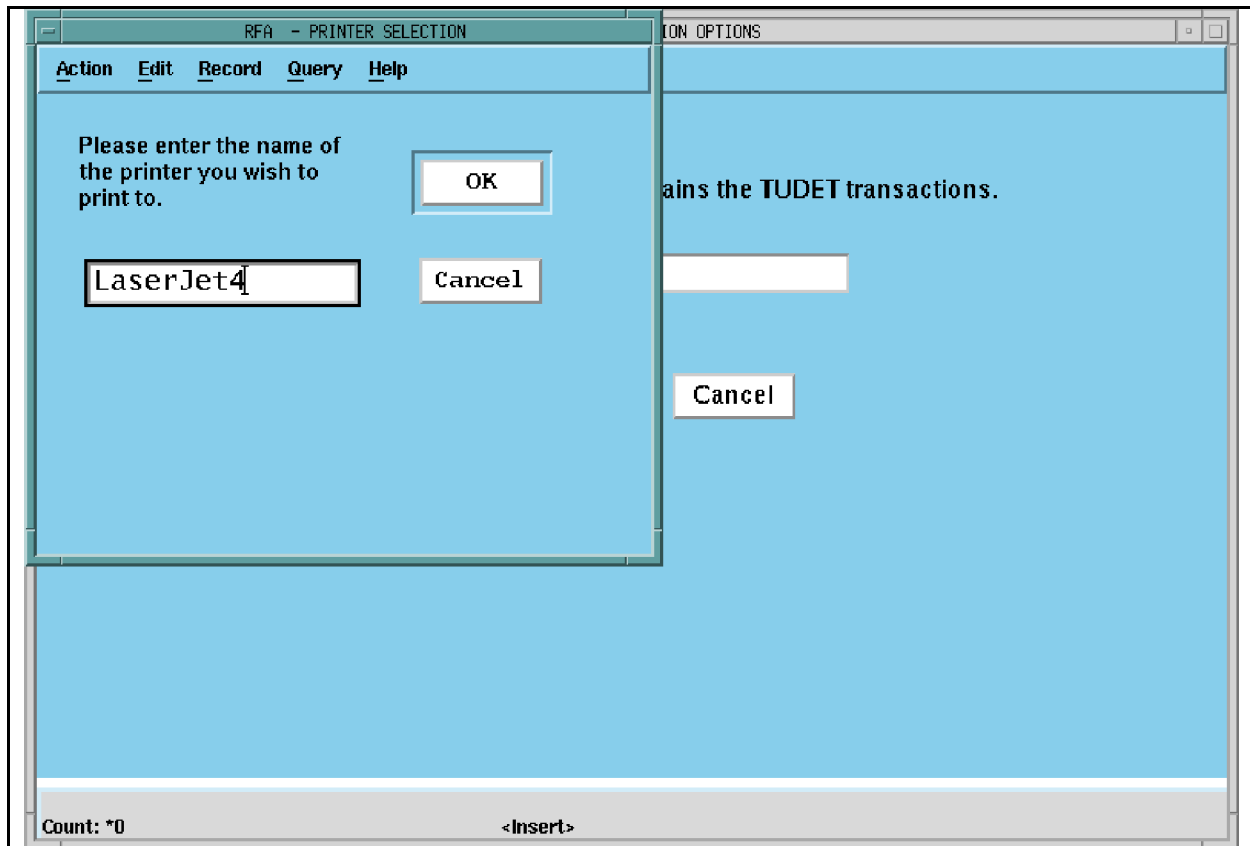


Figure 5.3.3.2.4.1-1. RFA - Printer Selection Window

Push Buttons. This window provides access to the following buttons:

- | | |
|-----------------|---|
| {OK} | Displays a wait window temporarily until the TUDET Input Transaction Listing Report is directed to the printer. The RFA - JRS Edit Results window appears when the printer receives the report (see Paragraph 5.3.3.2.5). |
| {Cancel} | Returns the user to the RFA - TUDET Transaction Options window (see Paragraph 5.3.3.2.2). |

5.3.3.2.5 RFA - JRS Edit Results

The load statistics and JRS format edit results are displayed in the RFA - TUDET Edit Results window shown in Figure 5.3.3.2.5-1. The load statistics indicate the total number of transactions loaded, including the header and trailer records. The edit results indicate the number of warnings and errors detected. Additionally, the total number of transactions, which are forwarded for further processing, and the total number of rejected transactions are displayed.

RFA - TUDET JRS EDIT RESULTS	
<u>A</u> ction <u>E</u> dit <u>R</u> ecord <u>Q</u> uery <u>H</u> elp	
Load statistics:	<div>34 Total Input Cards</div> <div>2 Header and Trailer Cards</div> <div>32 Transactions for processing</div>
Edit results:	<div>0 JRS Fatal Errors</div> <div>0 JRS Warnings</div>
32	Transactions have been forwarded for further processing.
0	Transactions were rejected due to fatal JRS errors.
You may now either View or Print the JRS Error Report. <div> <input type="button" value="View"/> <input type="button" value="Print"/> </div>	
Count: *0 <Insert>	

Figure 5.3.3.2.5-1. RFA - TUDET Edit Results Window

Push Buttons. This window provides access to the following buttons:

- {View}** Displays a wait window temporarily until the JRS Edit Report appears. Once the report appears, the user may traverse the various pages of the report, but must ultimately close the report to continue batch processing. The RFA - TUDET Data Edits window appears on closing the report (see Paragraph 5.3.3.2.6).
- {Print}** Gives the user the opportunity to print the JRS Edit Report in the background, and continue with batch processing immediately. Clicking **{Print}**, causes the RFA - Printer Selection window to appear (see Paragraph 5.3.3.2.5.1).

5.3.3.2.5.1 RFA - Printer Selection

The user can select a printer to direct the JRS Edit Report to print; however, the user must know the name of a valid printer, which is configured to the system. The printer name must be entered in the printer selection box in the RFA - Printer Selection window shown in Figure 5.3.3.2.5.1-1.

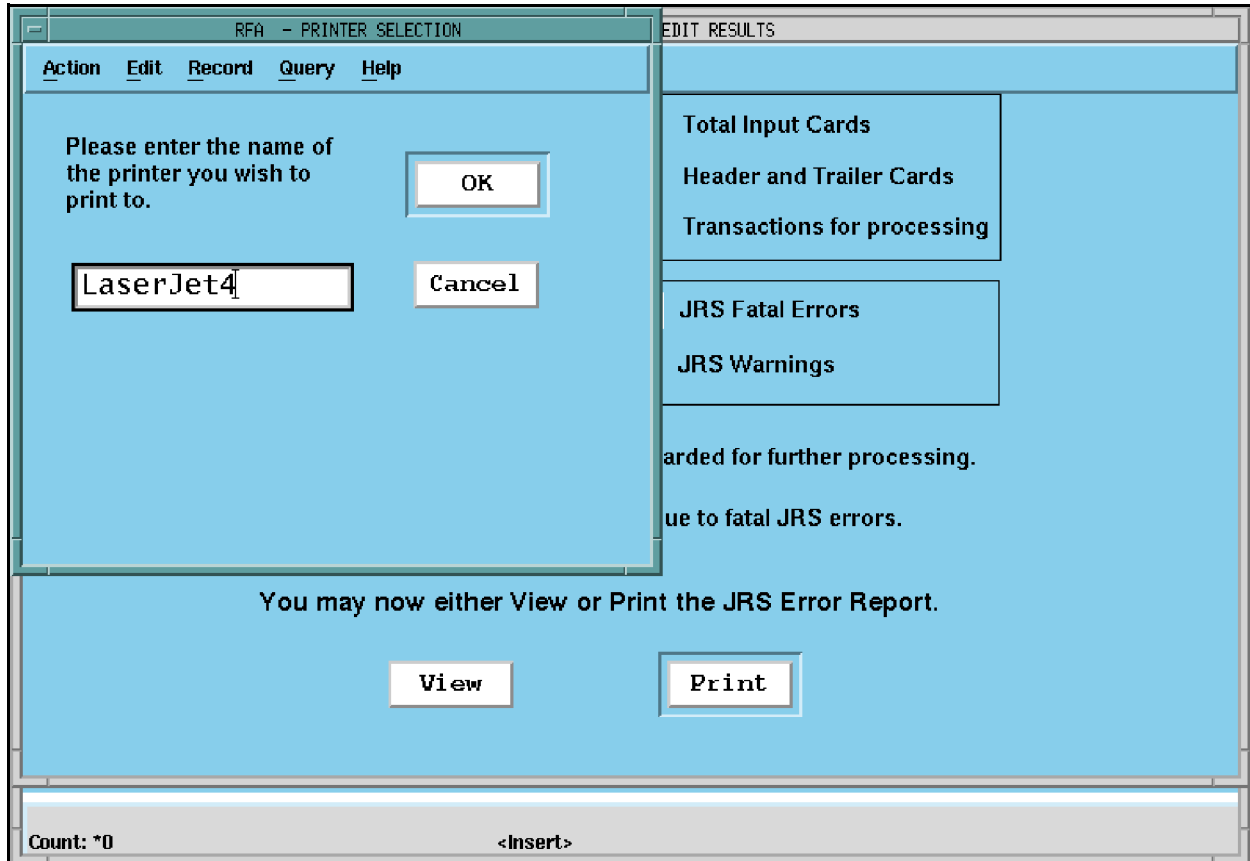


Figure 5.3.3.2.5.1-1. RFA - Printer Selection Window

Push Buttons. This window provides access to the following buttons:

- | | |
|-----------------|--|
| {OK} | Displays a wait window temporarily until the JRS Edit Report is directed to the printer. The RFA - TUDET Data Edits window appears when the printer receives the report (see Paragraph 5.3.3.2.6). |
| {Cancel} | Returns the user to the RFA - JRS Edit Results window (see Paragraph 5.3.3.2.5). |

5.3.3.2.6 RFA - TUDET Data Edits

The RFA - TUDET Batch Processing window, shown in Figure 5.3.3.2.6-1, provides the user the option to continue batch processing by performing the JRS data edits or terminate batch processing and return to the RFA - TUDET Transaction Options window (See Paragraph 5.3.3.2.2).

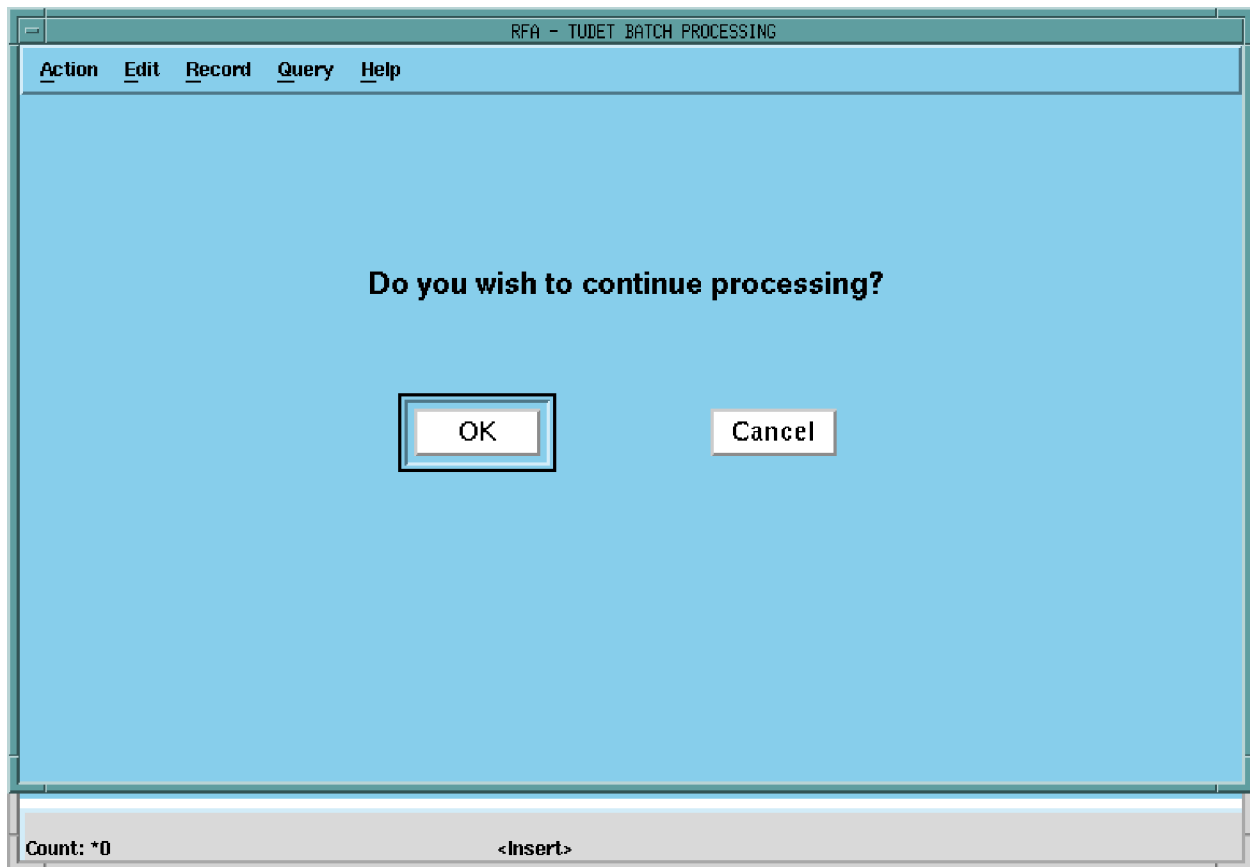


Figure 5.3.3.2.6-1. RFA - TUDET Data Edits Window

Push Buttons. This window provides access to the following buttons:

- | | |
|-----------------|--|
| {OK} | Performs the JRS data edits on the TUDET input transactions, and updates the TUDET tables in the RFA ORACLE database accordingly. The RFA - TUDET Data Edit Results window appears on completion of the edit processing (See Paragraph 5.3.3.2.7). |
| {Cancel} | Terminates batch processing without updating the TUDET tables in the RFA ORACLE database, and returns the user to the RFA - TUDET Transaction Options window (See Paragraph 5.3.3.2.2). |

5.3.3.2.7 RFA - TUDET Data Edit Results

The RFA - TUDET Data Edit Results window, shown in Figure 5.3.3.2.7-1, indicates the number of transactions that successfully update the TUDET tables in the RFA ORACLE database, and the number of transactions that are rejected due to JRS data edit errors. The user is given the opportunity to view or print the TUDET Input Transaction Error Report, which details the JRS data edit warnings and errors detected.

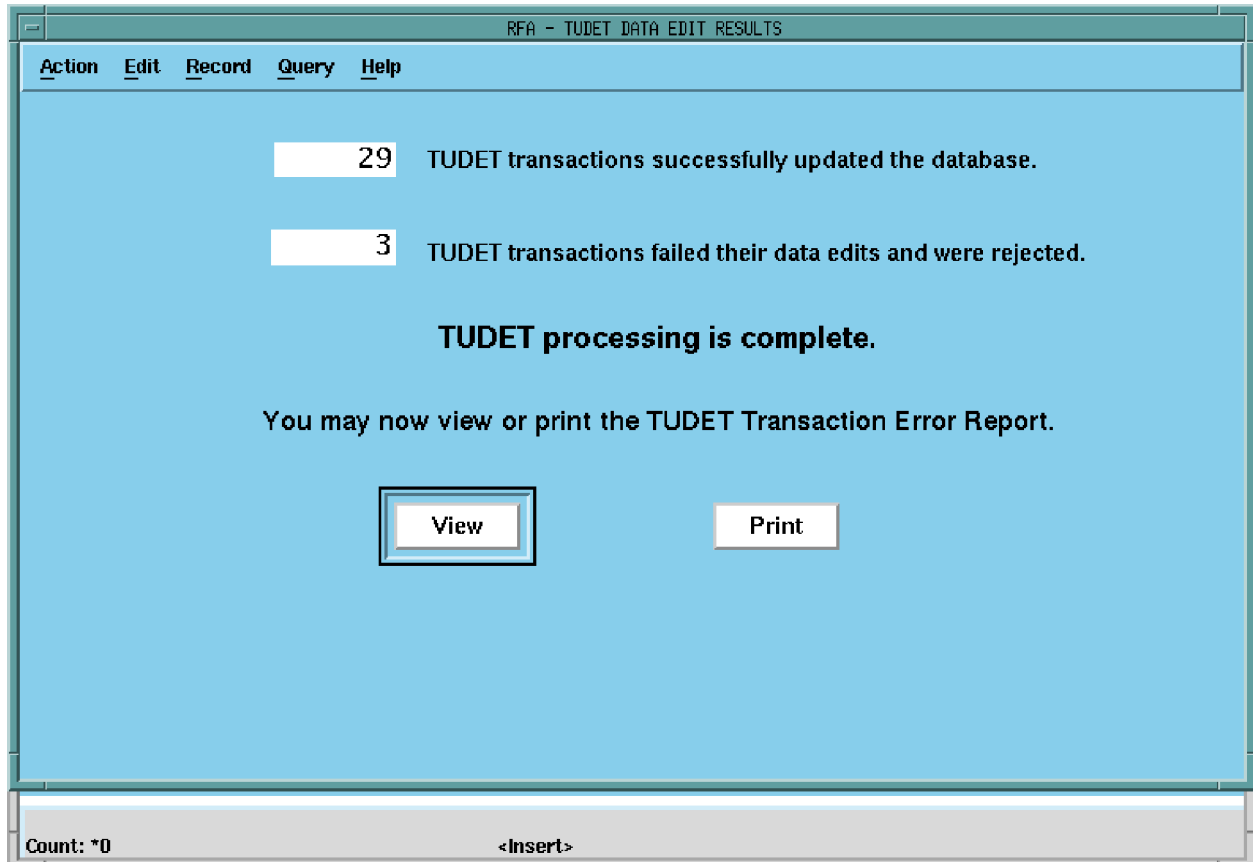


Figure 5.3.3.2.7-1. RFA - TUDET Data Edit Results Window

Push Buttons. This window provides access to the following buttons:

{View} Displays a wait window temporarily until the TUDET Input Transaction Error Report is displayed. Once the report appears, the user may traverse the various pages of the report, but must ultimately close the report to complete batch processing. The RFA - TUDET Transaction Options window appears on closing the report (See Paragraph 5.3.3.2.2).

{Print} Gives the user the opportunity to print the TUDET Input Transaction Report in the background and continue with batch processing immediately. Clicking **{Print}**, causes the RFA - Printer Selection window to appear (See Paragraph 5.3.3.2.7.1).

5.3.3.2.7.1 RFA - Printer Selection

The user can select a printer to direct the TUDET Input Transaction Error Report to print; however, the user must know the name of a valid printer, which is configured to the system. The printer name must be entered in the printer selection box in the RFA - Printer Selection window shown in Figure 5.3.3.2.7.1-1.

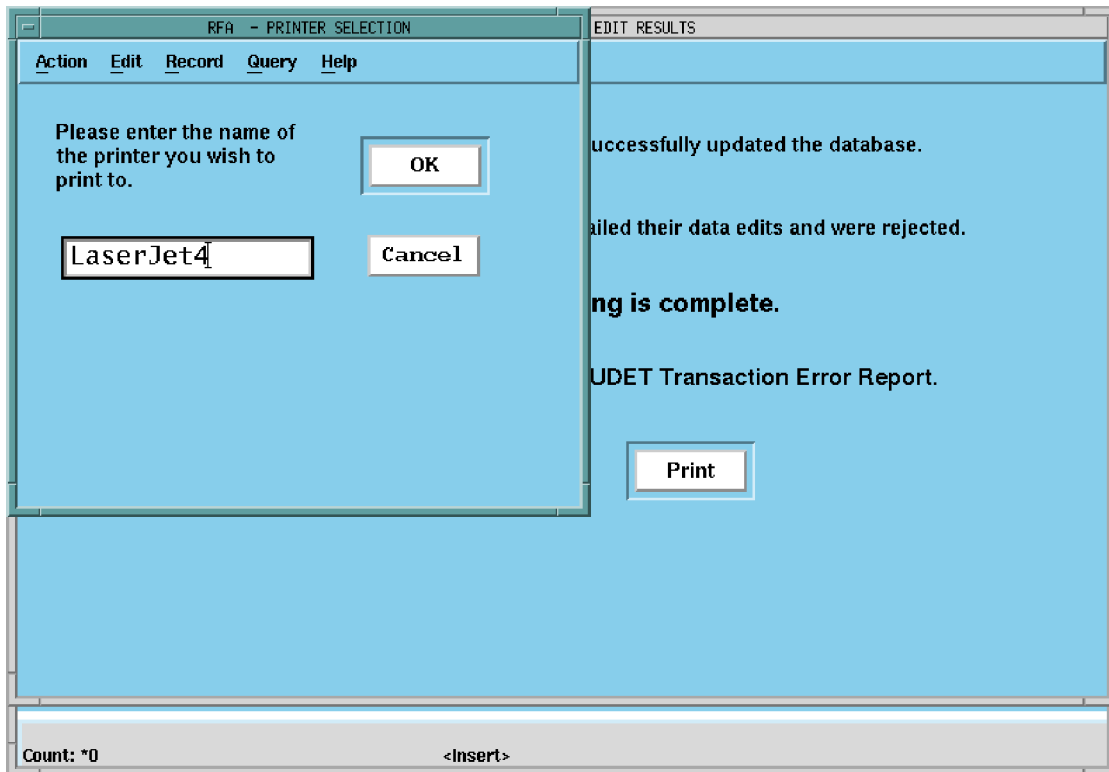


Figure 5.3.3.2.7.1-1. RFA - Printer Selection Window

Push Buttons. This window provides access to the following buttons:

{OK} Displays a wait window temporarily until the TUDET Input Transaction Error Report is directed to the printer. The RFA - TUDET Transaction Options window appears when the printer receives the report (see Paragraph 5.3.3.2.2).

{Cancel} Returns the user to the RFA - TUDET Data Edit Results window (see Paragraph 5.3.3.2.7).

5.3.3.3 TUDET Network

The TUDET Network function is executed following the batch update. The Network function processes all updates (adds, changes, and deletes) to the given reference file. (The function generates and executes a SQL script to update the specified reference file on the JOPES Core database servers.) Transactions are also generated in JRS format, which can be exported from GCCS to a legacy WWMCCS/TS3 mainframe to process reference file updates within the WWMCCS/TS3 network.

The Network function consists of four phases:

1. Prereduction,
2. Transaction Reduction,
3. Before/After Report, and
4. Transaction File Generation.

Each phase executes in sequence for the entire set of updates. At certain points the user may cancel the function and return to the RFA main menu, if desired. See individual descriptions below for more detail.

5.3.3.3.1 Prereduction

The prereduction phase consists of displaying a window, which prompts the user for the name to use for the JRS transaction file that is generated, as shown in Figure 5.3.3.3.1-1

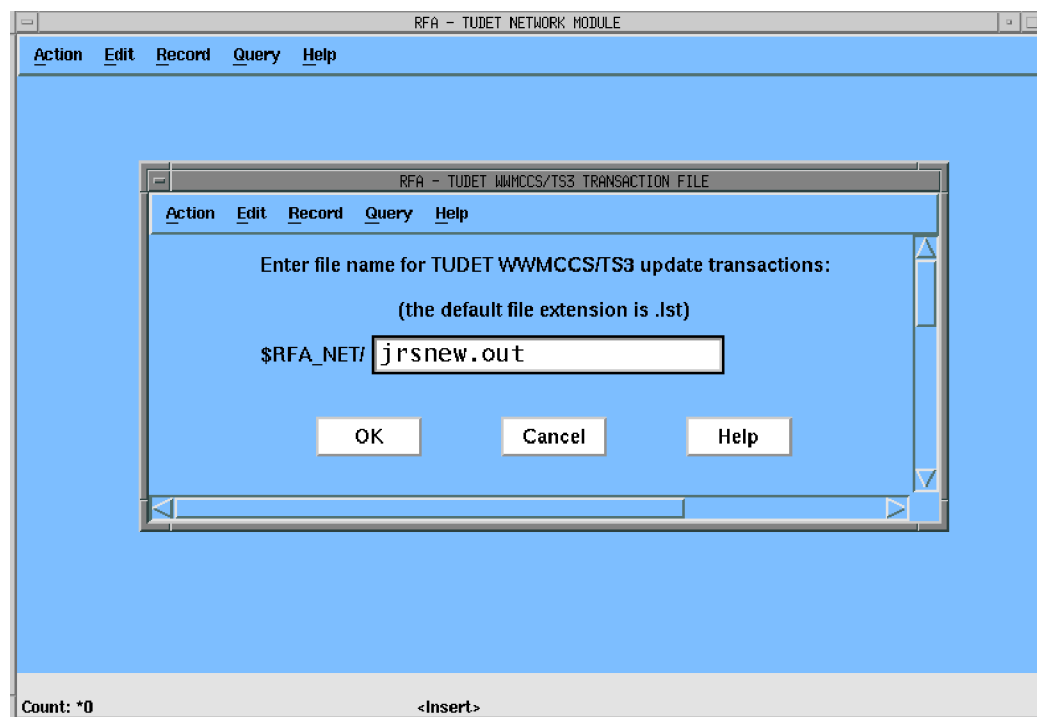


Figure 5.3.3.3.1-1. RFA - TUDET WWMCCS/TS3 Transaction File Window

Push Buttons. This window provides the following buttons:

{OK} Allows the user to continue processing. If clicking **{OK}**, processing proceeds to transaction reduction.

{Cancel} Exits the function, and returns the user to the RFA main menu.

{Help} Provides the user with additional assistance.

5.3.3.3.2 Transaction Reduction

After confirmation, transaction reduction begins. The transaction reduction phase takes the add, change, and delete transactions and reduces them to one update per database record. Figure 5.3.3.3.2-1 shows the RFA - Reducing Update Transactions window that appears.

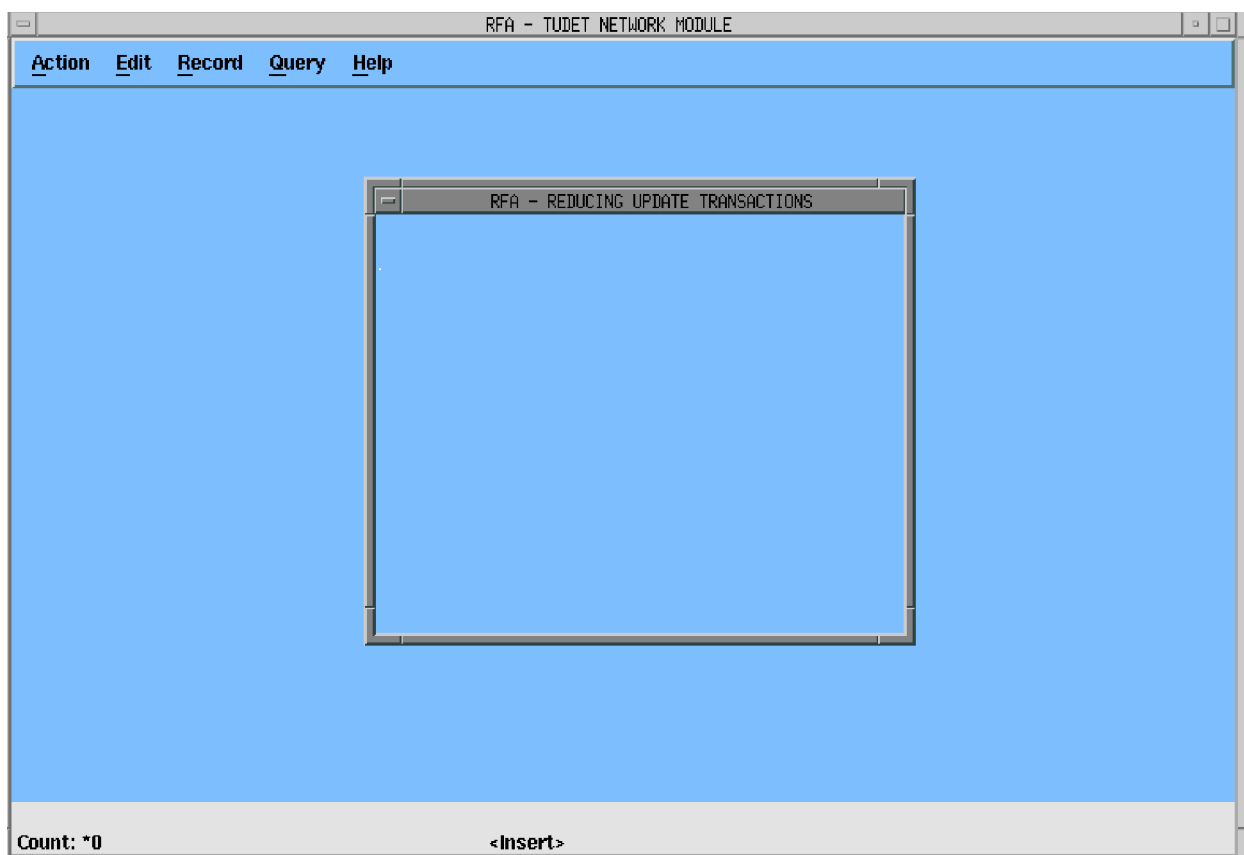


Figure 5.3.3.3.2-1. RFA - Reducing Update Transactions Window

All updates for a particular database record are gathered together and the first and last update examined. The reduction is performed according to the following algorithm:

<u>First Update</u>	<u>Last Update</u>	<u>Reduced Transaction</u>
Add	Add	Add
Add	Change	Add
Add	Delete	No action
Change	Add	Change
Change	Change	Change
Change	Delete	Delete
Delete	Add	Change
Delete	Change	Change
Delete	Delete	Delete

For change transactions, the first and last update are compared field-by-field. If no field was changed other than the creation date of the record or the change date of the record, then no reduced transaction is required; no reduced transaction is generated for that change. The procedure is repeated for each subsequent database record and each database table in the reference file, until all updates are processed. Processing proceeds immediately to Before/After Report generation.

5.3.3.3.3 Before/After Report

After the transaction reduction is completed, the update cycle report is generated. Figure 5.3.3.3.3-1 shows the RFA - Starting TUDET Before/After Report window that appears. The Before/After Report shows the results of reduction in update transactions. For each database table in the reference file a report is generated showing the before and/or after image of each reduced update transaction. Summary information is listed

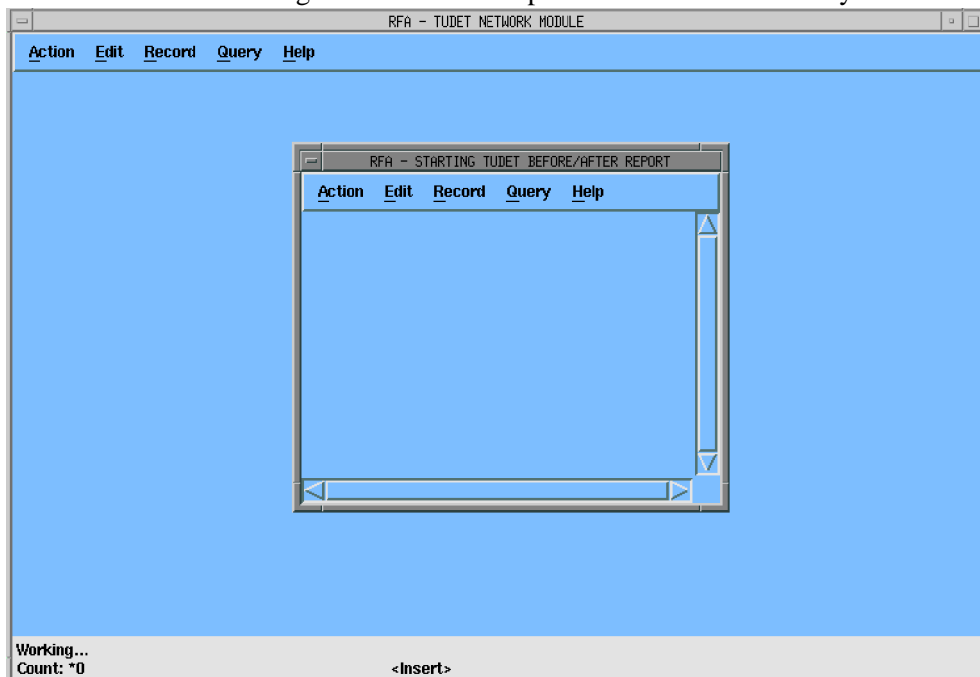


Figure 5.3.3.3.3-1. RFA -Starting TUDET Before/After Report Window

first, followed by detailed transaction listings. An after image is shown for adds, before image for deletes, and both before and after images for changes. Fields modified in the change transaction are highlighted. The generated report is sent to the printer. After the report is generated, processing proceeds immediately to transaction file generation. Appendix B provides examples of sample reports.

The report provided is described as follows:

Type Unit Equipment Detail Cycle Update Report. Extracts all adds, changes, and deletes after reduction to the TUDET reference file. Details include equipment code, equipment description, model number, CCC, dimensions (length, width, and height), square feet, cargo capacity [Measurement Tons (MTONs), Short Tons (STONs)], and unit code.

5.3.3.3.4 Transaction File Generation

The final phase of the Network function is the generation and execution of the SQL script to update the database and JRS-formatted transactions. The Network function executes a separate application enabling the user to determine the successful execution of the SQL script by viewing the contents of the TUDET Network Log File. The user may close the application or relocate the window, but should examine the contents of the log file prior to making a selection in the TUDET Networked Transaction Counts window. Figure 5.3.3.3.4-1 shows the RFA - TUDET Networked Transaction Counts and TUDET Network Log File windows that appear.

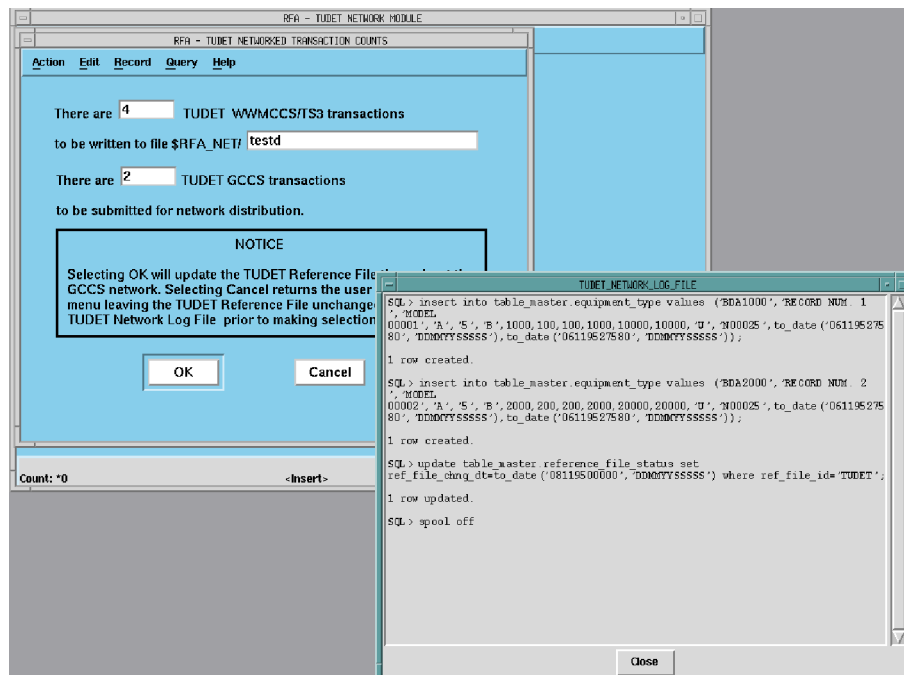


Figure 5.3.3.3.4-1. RFA - TUDET Networked Transaction Counts and TUDET Network Log File Windows

Push Buttons. The RFA - TUDET Networked Transaction Counts window provides the following buttons:

- | | |
|-----------------|--|
| {OK} | Updates the TUDET reference file on the JOPES Core database servers. |
| {Cancel} | Cancels the function and returns the user to the RFA main menu making no changes to the TUDET reference file on the JOPES Core database servers. |

Push Buttons. The TUDET Network Log File window provides the following button:

- | | |
|----------------|--|
| {Close} | Exits TUDET Network Log File window viewing function and does not effect the RFA software application. |
|----------------|--|

The RFA - TUDET Networked Transaction Counts window displays the name and location of the SQL and JRS transaction files that are generated and the results of the transaction reduction. For the results, the total number of reduced update transactions and JRS transactions for the reference file are displayed.

Following confirmation, the SQL script and JRS file are generated as ASCII files and written to the directory identified by environment variable \$RFA_NET. Once file generation and execution is complete, the Network function terminates and returns the user to the RFA main menu.

5.3.3.4 TUDET Reports

RFA provides an online and hardcopy reporting capability to generate several report types for the TUDET reference file. To execute the TUDET reports, highlight the **{Tudet File}** option from the left side of the RFA main menu, and click **{Reports}** on the right side (See Figure 5.3.3.4-1). The RFA TUDET Reports Menu window appears as shown in Figure 5.3.3.4-2.

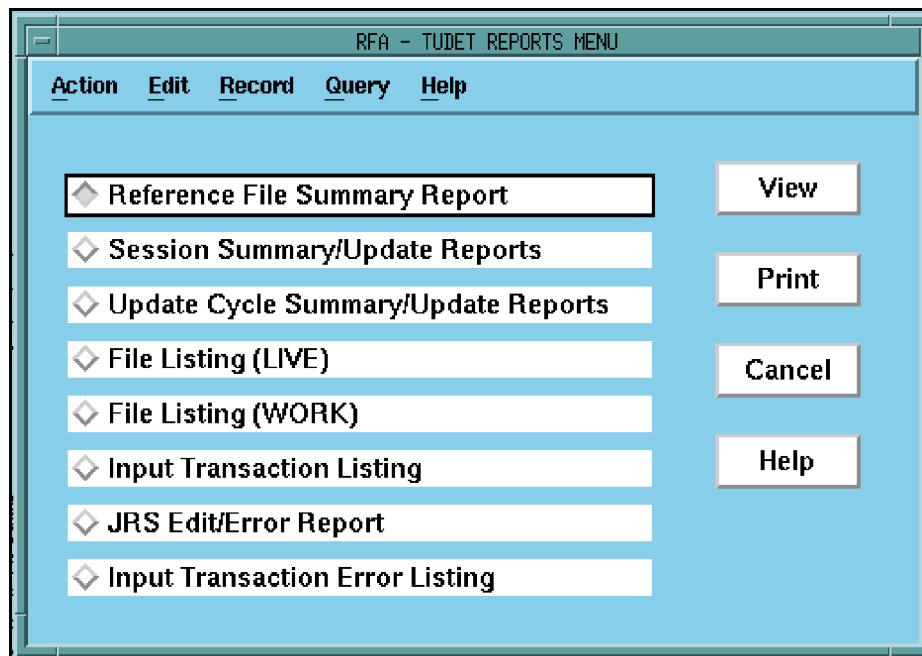


Figure 5.3.3.4-2. RFA - TUDET Reports Menu Window

Push Buttons. This window provides the following buttons:

{View}	Provides the report on the window.
{Print}	Provides the report on a printer. A pop-up window asks the user for the name of a particular printer.
{Cancel}	Cancels the process, and returns the user to the RFA main menu.
{Help}	Provides Online Help for this window.

Each report begins with a summary page, which may contain some or all of the following information: USERID, totals for items reported, total pages, sort sequence, start time, end time, and column heading definitions (See Appendix B for sample reports). The paragraphs below provide an overview of each type of report.

5.3.3.4.1 Reference File Summary Report

This report provides overview information for all reference files. For each file, one record is listed containing the following: reference subfile name, highest security classification of any data in each subfile, date and time of the last file update, and totals for active and canceled records (See Appendix B for sample report).

5.3.3.4.2 Session Summary/Update Reports

This report lists the add, change, and delete transactions that took place during a user session. Change transactions are reported as before and after images of records updated during a session. Details include equipment code, equipment description, model number, CCC, dimensions (length, width, and height), square feet, cargo capacity (MTONs, STONs), and unit code (See Appendix B for sample report).

5.3.3.4.3 Cycle Summary/Update Reports

This report, which runs from the Network or Reports function, shows the update activity that took place during a complete update cycle. It is similar in format to the Session Update Report with some differences. First, the Cycle Update Report displays the reduced update transactions that took place during the update cycle; whereas, the Session Update Report shows the update transactions that took place during a session. The Cycle Update Report summary page shows the total number of update and reduced update transactions, and the Session Update Report shows only the total number of update transactions (See Appendix B for sample report).

5.3.3.4.4 File Listing (LIVE) Report

This report shows all data from the TUDET reference file on the GCCS (See Appendix B for sample report).

5.3.3.4.5 File Listing (WORK) Report

This report shows all data from the TUDET reference file on the RFA application (See Appendix B for sample report).

5.3.3.4.6 Input Transaction Listing Report

This report lists all input transaction records that were loaded from a JRS Transaction file. The report runs automatically after input transactions are loaded during a batch update (See Appendix B for sample report).

5.3.3.4.7 JRS Edit/Error Reports

The JRS Edit Report lists JRS-formatted input records that were loaded into a reference file. The JRS Error Report shows invalid records that were rejected during that load (See Appendix B for sample report).

5.3.3.4.8 Input Transaction Error Listing Report

This report lists all input transaction error records that were rejected during a load into a reference file. The report runs automatically after input transactions are loaded during a batch update. This report is similar in format to the Input Transaction Listing Report (See Appendix B for sample report).